

April 21, 2004

MODIS sensor Working Group (MsWG) Summary

Attendance: Bill Barnes, Vincent Chiang, Roger Drake, Gene Eplee, Hector Erives, Bob Evans, Gerhard Meister, Vince Salomonson, Junqiang Sun, Liqin Tan, Jack Xiong, Zhengming Wan, Joe Esposito

Scheduled Items

Item 1 General Instrument Status: JX

Both Terra and Aqua are performing well for Earth view and SD, BB, and SV OBCs

Terra: For one calibration using the SRCA (20W and 30W) the dn changed dramatically.

Assume it could be a 10W lamp (B or C). Lamp A is following the normal trend and is okay.

MCST has requested that MODIOT look into scheduling 10W calibrations using lamps B and C individually. If one of the two lamps performs poorly, then MCST would recommend replacing it with the spare 10W lamp, D.

RD) Which 10W lamps are being used for 10W, 20W, and 30W test?

JX) 10W: A; 20W: A+B; 30W: A+B+C.

WB) Didn't this happen on Aqua?

JX) Yes. Lamp D is now used on Aqua.

RD) It would have been good to trend the lamp D since pre-launch. Will you measure lamp D?

JX) Yes. The B, C, and D lamps can be checked.

BE) The SRCA values may be shifting the RVS ~ 2% over four years.

JX) The SRCA (AOI 38°) would only affect NADIR. 2% would be a large effect on the nLw. I would suggest Gerhard compare the MODIS data with MOBY at different AOI as well. (MCST Action: look at the effect of SRCA consistency on the time dependent RVS [bands 8 and 9])

Item 2 MCST L1B Code/LUT Update: VC

Aqua deliveries:

1. m1 test fitted LUT used for prediction of m1 – to GSFC Ocean team.
2. regular (m1 and RVS) delivery to DAAC.

Terra deliveries:

1. anticipate a delivery over the next 7 to 10 days.

VC) L1B Code change for ocean bands sub-setting – MCST is waiting for the final testing data.

LT) We are still missing the OBC data part from the test sub-set L1A.

JX) The code change is to allow ocean sub-setting or regular processing.

Around the Table

Participant: Jack Xiong

- JX) While at the Ocean Color Meeting last week, I received requests from MISR (RSB) and Land teams on how the calibration is set up. Discussed pre-launch RVS, MISR/MODIS comparison.
- WB) What are the land team concerns?
- JX) They feel that they are “out of the loop”.
 - 1. SWIR band improvements.
 - 2. Earth scene striping.
- JX) MCST has put manpower going into writing the updated L1B ATBD. The existing ATBD date back to 1997. The Science team presentations and papers by MCST have been used as updates to the original ATBD. The new L1B ATBD will place all the information into one document (easier for users to get the information they require).

Participant: Gerhard Meister

- GM) We are working with the new LUT (see VC above) and will look at polynomial fits offline.
We received Polarization measurement data from Jim Brown.

Next MsWG Meeting on May 5, 2004 (2004-05-05)